

Attorney Docket No. 000315

09/910,361

**REMARKS/ARGUMENTS**

Claims 1-19 remain pending in the application. Applicant, by this paper, amends claims 1, 3, 6, 9, 11, and 14, and requests reconsideration and allowance of all pending claims.

**Discussion of Rejections Under 35 U.S.C. §103(a)**

Claims 1-19 were rejected under 35 U.S.C. §103(a) as allegedly unpatentable over U.S. Patent No. 6,188,351 to Bloebaum (hereinafter Bloebaum) in view of U.S. Patent No. 6,271,788 to Longaker et al. (hereinafter Longaker).

To establish a *prima facie* case of obviousness, three basic criteria must be met. First, there must be some suggestion or motivation, either in the references themselves or in the knowledge generally available to one of ordinary skill in the art, to modify the reference or to combine reference teachings. Second, there must be reasonable expectation of success. Finally, the prior art reference, or references when combined, must teach or suggest all of the claim limitations.

The Examiner contends that the combination of references teaches or suggests all claimed features. With respect to claim 1, 3, 6, 9, 11, and 14, the Examiner concedes that Bloebaum does not teach where the system determines the code-phase search range is transmits it to the mobile station.

Claim 1 includes "a controller operable to calculate a GPS code-phase search range with reference to a base station geographic location, the wireless coverage area, an angle between a vector extending from the base station to a GPS satellite and a vector extending from the base station to the GPS/wireless terminal unit, said GPS time reference and the estimated wireless signal propagation delay within said coverage area." The feature added by amendment is described in Applicant's specification at page 17, paragraph [0062].

This feature of claim 1 is not taught nor suggested by neither Bloebaum nor Longaker. Longaker fails to describe the use of any elevation angle in determining a code phase search range. Bloebaum describes only the elevation angle corresponding to a the satellite elevation at the location of the BTS. *Bloebaum*, at Col. 11, ll. 37-38. Applicant's claimed angle defined by "a vector extending from the base station to a GPS satellite and a vector extending from the base station to the GPS/wireless terminal unit" differs from the satellite elevation angle

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at the base station. Thus, a prima facie case for obviousness rejection of claim 1 has not been made, because Bloebaum and Longaker, whether alone or in combination, fail to teach or suggest all claimed limitations. Applicant respectfully requests reconsideration and allowance of claim 1.

**Claim 9** includes features similar to those discussed above in relation to claim 1 and is believed to be allowable at least for the reason presented above in relation to claim 1. Applicant respectfully requests reconsideration and allowance of claim 9.

**Claim 3** includes "a controller operable to calculate a GPS code-phase search range with reference to a base station geographic location, a radius of the wireless coverage area served by the base station, an elevation angle of a GPS satellite, and said time reference." This feature is neither taught nor suggested by Bloebaum nor Longaker. As described above, Bloebaum describes an elevation angle of the satellite at the location of the base station, but fails to describe how the radius of the wireless coverage area and elevation angle are used to determine a code phase search range. Thus, Bloebaum and Longaker, whether alone or in combination, fail to teach or suggest all claimed limitations. Applicant respectfully requests reconsideration and allowance of claim 3.

**Claim 11** includes features similar to those discussed above in relation to claim 3 and is believed to be allowable at least for the reason presented above in relation to claim 3. Applicant respectfully requests reconsideration and allowance of claim 11.

**Claim 6** recites a system for transmitting a GPS receiver code-phase search range that includes "a controller operable to calculate a GPS code-phase search range with reference to a variance of a positioning error of said location reference, and said time reference." As featured in the claim, the code-phase search range is determined, in part, based on a location reference for the GPS/wireless terminal unit, and a variance of the positioning error of the location reference. This feature is discussed in Applicant's specification, generally, at page 21, paragraph [0073], with the location reference described as a estimate of the user position.

Neither Bloebaum nor Longaker describes using a variance of the estimate of the user position in determining a code phase search range. Bloebaum fails to describe any statistics related to a location reference of the terminal unit distinct from a GPS positioning receiver.

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Thus, Bloebaum and Longaker, whether alone or in combination, fail to teach or suggest all claimed limitations. Applicant respectfully requests reconsideration and allowance of claim 6.

**Claim 14** includes features similar to those discussed above in relation to claim 6 and is believed to be allowable at least for the reason presented above in relation to claim 6. Applicant respectfully requests reconsideration and allowance of claim 14.

**Claim 17** recites a system for transmitting a GPS receiver code-phase search range that includes "a controller operable to *calculate the GPS code-phase search range independent of a timing offset of the integrated GPS/wireless terminal unit*, the GPS code-phase search range calculated with reference to a base station geographic location, a wireless coverage area, and said GPS time reference." (*emphasis added*). This feature is not taught nor suggested by Bloebaum or Longaker.

Bloebaum describes using the timing advance (TA) value related to the GSM standard to determine a time offset of the user and thus, determine a distance of the user from a base station. However, claim 17 recites a system that is "*independent of a timing offset of the integrated GPS/wireless terminal unit*." Bloebaum does not describe does not describe determining a code phase search that is independent of a timing offset of the user. Thus, Bloebaum and Longaker, whether alone or in combination, fail to teach or suggest all claimed limitations. Applicant respectfully requests reconsideration and allowance of claim 17.

**Claim 19** includes "a controller operable to calculate the GPS code-phase search range with reference to a base station geographic location, a position estimate of the integrated *GPS/wireless terminal unit having an uncertainty area distinct from the base station geographic location*, and said GPS time reference." (*emphasis added*). Bloebaum and Longaker fail to describe this claimed feature.

Bloebaum describes using a timing advance (TA) to define "a finite width ring 30 around the BTS 20, with the *width of the ring 30 dependent on the resolution of the TA parameter*." Bloebaum, at Col. 11, ll. 12-14 (*emphasis added*). Thus, the width of the ring depends on the resolution of the TA and defines an uncertainty range. The uncertainty range defined by the width of the ring is centered at the base station geographic location, and thus, is wholly dependent on the base station geographic location. This is in direct contrast to that

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claimed in claim 19. Thus, Applicant respectfully requests reconsideration and allowance of claim 19.

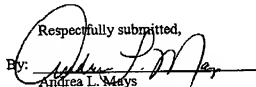
Claims 2, 4-5, 7-8, 10, 12-13, 15-16, and 18 depend from one of claims 1, 3, 6, 9, 11, 14, and 17, and are believed to be allowable at least for the reason that they depend from an allowable base claim. Applicant respectfully requests reconsideration and allowance of claims 2, 4-5, 7-8, 10, 12-13, 15-16, and 18.

### CONCLUSION

In view of the foregoing, Applicants believe all claims now pending in this Application are in condition for allowance. The issuance of a formal Notice of Allowance at an early date is respectfully requested. Applicant is also filing a Request for Continued Examination herewith.

If the Examiner believes a telephone conference would expedite prosecution of this application, please telephone the undersigned at 858-651-8546.

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